

LIQUID—TIGHT JOINT П CONSTRUCTION YES 8

LIQUID-TIGHT JOINT OPTIONS

NON-METALIC WATERSTOP

HYDROPHILIC WATERSTOP (PVC)

> CONSTRU)TION JOINT OPTIONS

> > Date

<u>06/23/0</u>5

IF SLAB SEPARATE BE THORO AND A WIRE BRUSH. THE SURFACE THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT 3 AND WALL ARE POURED
ATELY, THE SLAB SURFACE MUST
DROUGHLY CLEANED WITH WATER
WIRE BRUSH. THE SURFACE OF OF NEW CONCRETE.

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THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.

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WATERSTOP

SLAB CORNER DETAILS 6-FOOT WALL CORNER DET RESTRAINING SLAB OPTIONS SEE PA-027B SEE PA-023 SEE PA-024

GENERAL DESIGN NOTES:

- DRAINAGE SHALL BE AWAY FROM THE WALL.
- *THE MINIMUM TOP WIDTH OF THE BACKFILL AGAINST THE WALL SHALL BE EQUAL TO OR GREATER THAN THE BACKFILL HEIGHT *MAXIMUM FOOTING CONTACT PRESSURE IS 950 psf/ft. HEIGHT.

DESIGN STRENGTHS: WORKING STRESS DESIGN

CONCRETE

WALL

 $f_{\rm C} = 4,000 \, \rm psi$ STEEL $f_s = 20,000 \text{ psi}$ (GRADE 40)

DESIGN LOADING: 313 STANDARD - LATERAL EARTH PRESSURE VALUES, SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE.

- *MANURE LOAD INSIDE = 65 psf/ft.
 *SOIL BACKFILL LOAD OUTSIDE = 60 psf/ft.
 *120 psf HORIZONTAL SURCHARGE OR A 2.5:1 SLOPING
 *SOIL BACKFILL DENSITY = 110 pcf. BACKFILL IS ALLOWED.
- ·WATER TABLE MUST BE BELOW
- THE FOOTING ELEVATION

WALL RESTRAINT REQUIREMENTS: *5" THICK SLAB SAFETY FACTOR

THICK SLAB, SAFETY FACTOR AGAINST SLIDING 1.5

4 FEET	5 FEET	6 FEET	(OUTSIDE LOAD)	BACKFILL HEIGHT
29 FEET	48 FEET	70 FEET	NO INSIDE LOAD	SLAB LENGTH
NO SLAB	NO SLAB	NO SLAB	FULL INSIDE LOAD	SLAB LENGTH

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPE WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WI. 53717-2906 IT WAS DEVELOPED IN COOPERATION MER PROTECTION. THE DESIGN FOLDER

A 4-FOOT MINIMUM OF BACKFILL IS REQUIRED.

DIMENSIONS ARE TO THE REINFORCING BAR SURFACE.

#5 BARS, #4

TOTAL TOTAL

LENGTH

TOTAL LENGTH OF WALL

BARS,

LENGTH

(ADAPTED FROM WI-562, APRIL 2005)





COUNTY, PENNSYLVANIA

6' HIGH, 8" L-WALL (W/SURCHARGE)